

Comparisons of Job Characteristics

Focus Occupation: [Cartographers and Photogrammetrists \(17-1021\)](#)

Associated Occupation: [Surveyors \(17-1022\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 75

Focus Occupation: Cartographers and Photogrammetrists (17-1021)

Associated Occupation: Surveyors (17-1022)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mathematics	9.2	20.6	9.9	<<	Extensive education and/or training may be required
Geography	3.9	16.1	19.1	>	Current knowledge level is likely sufficient
Computers and Electronics	8.4	15.3	14.8	0	Current knowledge level may be sufficient
Engineering and Technology	5.7	15.1	5.4	<<	Extensive education and/or training may be required
Administration and Management	8.4	12.6	5.9	<<	Extensive education and/or training may be required
Design	5.2	12.6	9.5	<<	Extensive education and/or training may be required
Law and Government	5.9	12.0	3.7	<<	Extensive education and/or training may be required
Physics	4.3	9.2	2.3	<<	Extensive education and/or training may be required
Building and Construction	4.0	8.9	2.3	<<	Extensive education and/or training may be required
History and Archeology	2.6	6.8	2.7	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 82

Focus Occupation: Cartographers and Photogrammetrists (17-1021)

Associated Occupation: Surveyors (17-1022)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
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Mathematics	6.2	14.1	7.9	<<	Extensive development of skills in this area may be required
Management of Personnel Resources	6.9	9.9	6.9	<<	Extensive development of skills in this area may be required
Equipment Selection	3.3	6.2	1.5	<<	Extensive development of skills in this area may be required
Programming	2.2	5.1	3.1	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 89

Focus Occupation: Cartographers and Photogrammetrists (17-1021)

Associated Occupation: Surveyors (17-1022)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Mathematical Reasoning	6.3	14.7	8.1	<<	Extensive improvement in abilities may be required
Number Facility	6.3	13.3	7.9	<<	Extensive improvement in abilities may be required
Flexibility of Closure	7.8	12.1	10.1	<	Some improvement in abilities may be required
Information Ordering	9.9	12.0	10.7	<	Some improvement in abilities may be required
Far Vision	7.8	10.8	9.3	<	Some improvement in abilities may be required
Visualization	7.5	10.8	9.1	<	Some improvement in abilities may be required
Speed of Closure	5.9	8.7	7.2	<	Some improvement in abilities may be required
Spatial Orientation	2.7	7.0	1.3	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 90

Focus Occupation: Cartographers and Photogrammetrists (17-1021)

Associated Occupation: Surveyors (17-1022)

Work Activities	Exclusivity of Activity
Analyze spatial data	87
Analyze technical data, designs, or preliminary specifications	47
Draw maps or charts	69
Interpret aerial photographs	69
Interpret maps for architecture, construction, or engineering project	77

Read maps	42
Read technical drawings	7
Research property records	77
Understand engineering data or reports	48
Understand property documents	77
Use computer aided drafting or design software for design, drafting, modeling, or other engineering tasks	58
Use drafting or mechanical drawing techniques	50

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 68

Focus Occupation: Cartographers and Photogrammetrists (17-1021)
Associated Occupation: Surveyors (17-1022)

Tools and Technologies	Exclusivity
Audio and visual equipment	4
Business function specific software	1
Computer data input devices	2
Computers	1
Content authoring and editing software	1
Data management and query software	1
Geography and map skills resources and accessories	51
Industry specific software	1
Information exchange software	1
Land surveying instruments	19
Light and wave generating and measuring equipment	4
Measuring and layout tools	3
Network applications software	1
Utility and device driver software	17

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.